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OSMM&N File No. 240713US6X

Dept.: IP-1

By: GJM/ims

Serial No. 10/624,560

In the matter of the Application of: Domenico SANFILIPPO, et al.

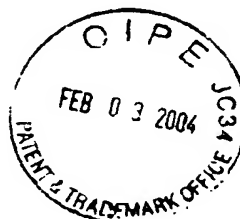
For: PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS FROM HEAVY
CHARGES SUCH AS HEAVY CRUDE OILS AND DISTILLATION
RESIDUES BY MEANS OF PARTIAL OXIDATION

Due Date: _____

The following has been received in the U.S. Patent Office on the date stamped hereon:

■ Request for Priority

■ Priority Doc (1)



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OSMM&N File No. 240713US6X

Dept.: E/M

By: GJM/RFC/LS/pch

Serial No. 10/624,560

In the matter of the Application of: Domenico SANFILIPPO, et al.

For: PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS FROM HEAVY CHARGES SUCH AS HEAVY CRUDE OILS AND DISTILLATION RESIDUES BY MEANS OF PARTIAL OXIDATION

Due Date: N/A

The following has been received in the U.S. Patent Office on the date stamped hereon

- ☐ Dep. Acct. Order Form
- ☐ Cover Letter
- ☐ Amendment under 37 C. F. R. § 1.312(a)

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DATE

CASE ID

Docket No. 240713US6X

IN RE APPLICATION OF: Domenico SANFILIPPO, et al.

SERIAL NO: 10/624,560

ALLOWED: October 25, 2005

(Application Filed: July 23, 2003)

FOR: PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS FROM HEAVY CHARGES SUCH AS HEAVY
CRUDE OILS AND DISTILLATION RESIDUES BY MEANS OF PARTIAL OXIDATION

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Transmitted herewith is an AMENDMENT UNDER 37 C. F. R. § 1.312(a) in the above-identified application.

☒ No additional fee is required

Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.

☐ Additional documents filed herewith:

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS	RATE	CALCULATIONS
TOTAL	1	MINUS	20	0	x \$50 =	\$0.00
INDEPENDENT	1	MINUS	3	0	x \$200 =	\$0.00
		<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS			+ \$360 =	\$0.00
		TOTAL OF ABOVE CALCULATIONS				\$0.00
		<input type="checkbox"/> Reduction by 50% for filing by Small Entity				\$0.00
		<input type="checkbox"/> Recordation of Assignment			+ \$40 =	\$0.00
		TOTAL				\$0.00

☐ A check in the amount of **\$0.00** is attached.

☐ Credit card payment form is attached to cover the fees in the amount of **\$0.00**

☒ Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

☒ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

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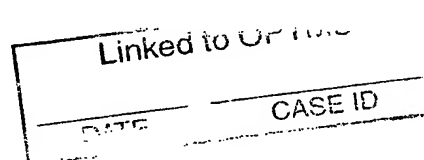
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(OSMMN 05/03)

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Registration No. 40,440



DOCKET NO: 240713US6X

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
DOMENICO SANFILIPPO, ET AL. : EXAMINER: LANGEL, WAYNE A.
SERIAL NO: 10/624,560 : GROUP ART UNIT: 1754
DATE ALLOWED: OCTOBER 25, 2005 : APPLICATION FILED: JULY 23, 2003
FOR: PROCESS FOR THE PRODUCTION :
OF SYNTHESIS GAS FROM HEAVY
CHARGES SUCH AS HEAVY CRUDE
OILS AND DISTILLATION RESIDUES
BY MEANS OF PARTIAL OXIDATION

AMENDMENT UNDER 37 C.F.R. § 1.312(a)

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

In response to the Notice of Allowance dated October 25, 2005, please amend the
above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on
page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

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DATE	CASE ID

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for the production of synthesis gas from heavy charges comprising:

~~partially oxidizing a partial oxidation of~~ heavy charges with oxygen or air enriched in oxygen in the a presence of vapour carried out at temperatures higher than 1000°C and pressures equal to or higher than 20 atm;

~~and the subsequent cooling, after partially oxidizing, of the~~ a synthesis gas obtained, by the direct injection of directly injecting water into the synthesis gas itself followed by the separation of separating the water effected by means of an adduction pipe surrounded by a an open concentric tube open at both ends so as to form a ring through which the cooled gas and water can rise,

~~characterized in that wherein the~~ a distance (L) between the a lower end of the adduction pipe and the a lower end of the open concentric tube must be equal to or higher than x times the a diameter (D) of said lower end of said adduction pipe,

wherein x varies in relation to the a specific gas mass flow-rate (F), expressed in kg/h/cm², according to the equation $x = 0.026 F + 0.15$.

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REMARKS/ARGUMENTS

Applicant notes with appreciation the Examiner's allowance of the present application.

Claim 1 has been amended to: place the elements of the method claim in a more typical arrangement for method claims, clarify antecedent basis for several terms, and generally clarify the language used in the claim. The changes are of a clerical nature. Therefore, Applicant respectfully submits that no new subject matter has been added by the foregoing amendment and respectfully requests that the amendment be entered.

If there are any questions regarding this amendment or the application in general, a telephone call to the undersigned would be appreciated.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

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GJM/RFC/LS:pch

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